



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/729,888
Filing Date	December 5, 2003
First Named Inventor	Wakefield, Todd D.
Art Unit	2164
Examiner Name	Phuong-Thao Cao
Attorney Docket Number	03760.021/5138P

Sheet 1 of 1**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
PTC		US- 4,914,590	04-03-1990	Loatman et al.	704/8
PTC		US- 5,694,523	12-02-1997	Wical	706/45
PTC		US- 5,933,818	08-03-1999	Kasravi et al.	706/12
PTC		US- 20030167266-A1	09-04-2003	Saldanha et al.	707/6
PTC		US- 6,304,870	10-16-2001	Kushmerick et al.	707/4
PTC		US- 6,102,969	08-15-2000	Christianson et al.	717/146
PTC		US- 5,890,103	03-30-1999	Carus	704/9
PTC		US- 5,768,580	06-16-1998	Wical	707/102
PTC		US- 5,887,120	03-23-1999	Wical	706/46
PTC		US- 5,918,236	06-29-1999	Wical	715/500
PTC		US- 5,930,788	07-27-1999	Wical	707/5
PTC		US- 5,940,821	08-17-1999	Wical	707/3
PTC		US- 5,953,718	09-14-1999	Wical	707/5
PTC		US- 5,963,940	10-05-1999	Liddy et al.	707/5
PTC		US- 6,038,560	03-14-2000	Wical	707/5
PTC		US- 6,061,675	05-09-2000	Wical	706/45
PTC		US- 6,076,088	06-13-2000	Paik et al.	707/5
PTC		US- 6,199,034	03-06-2001	Wical	704/9
PTC		US- 6,263,335	07-17-2001	Paik et al.	707/5

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
PTC		WO-98/24016	06-04-1998	Devoino et al.	G06C	
PTC		WO-99/18527	04-15-1999	Batchilo et al.	G06F 17/50	
PTC		WO-00/14651	03-16-2000	Tsourikov et al	G06F 17/28	
PTC		WO-00/46703	08-10-2000	Devoino et al.	G06F 17/50	

Examiner  
Signature/Phuong Thao Cao/ *Phuong Thao Cao*Date  
Considered

05/24/2006

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Application Number	10/729,888
		Filing Date	December 5, 2003
		First Named Inventor	Wakefield, Todd D.
		Art Unit	2164
		Examiner Name	Phuong-Thao Cao
Sheet 2 of 10	Attorney Docket Number	03760.021/5138P	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
PTC		US- 6,460,034	10-01-2002	Wical	707/5
PTC		US- 6,487,545	11-26-2002	Wical	706/45
PTC		US- 6,507,829	01-14-2003	Richards et al.	706/45
PTC		US- 6,513,006	01-28-2003	Howard et al.	704/257
PTC		US- 6,523,026	02-18-2003	Gillis	707/3
PTC		US- 6,553,385	04-22-2003	Johnson et al.	707/104.1
PTC		US- 6,567,805	05-20-2003	Johnson et al.	707/5
PTC		US- 6,571,235	05-27-2003	Marpe et al.	707/3
PTC		US- 6,584,470	06-24-2003	Veale	707/102
PTC		US- 6,594,658	07-15-2003	Woods	707/5
PTC		US- 6,601,026	07-29-2003	Appelt et al.	704/9
PTC		US- 6,604,094	08-05-2003	Harris	706/48
PTC		US- 6,615,209	09-02-2003	Gomes et al.	707/5
PTC		US- 6,618,725	09-09-2003	Fukuda et al.	707/6
PTC		US- 20030163302	08-28-2003	Yin	704/9
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> *Number <sup>4</sup> *Kind Code <sup>5</sup> (if known)				

Examiner Signature	/Phuong Thao Cao/ <i>Phuong Thao Cao</i>	Date Considered	05/24/2006
--------------------	--	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/729,888
Filing Date	December 5, 2003
First Named Inventor	Wakefield, Todd D.
Art Unit	2164
Examiner Name	Phuong-Thao Cao
Attorney Docket Number	03760.021/5138P

Sheet 3 of 10**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
PTC		US- 4,965,763	10-23-1990	Zamora	704/1
PTC		US- 4,992,972	02-12-1991	Brooks et al.	715/708
PTC		US- 5,146,405	09-08-1992	Church	704/9
PTC		US- 5,614,899	03-25-1997	Tokuda et al.	341/51
PTC		US- 5,696,916	12-09-1997	Yamazaki et al.	715/853
PTC		US- 5,799,268	08-25-1998	Boguraev	704/9
PTC		US- 5,802,504	09-01-1998	Suda et al.	706/11
PTC		US- 5,844,798	12-01-1998	Uramoto	704/2
PTC		US- 5,878,385	03-02-1999	Bralich et al.	704/9
PTC		US- 5,901,068	05-04-1999	Batchilo et al.	703/6
PTC		US- 6,056,428	05-02-2000	Devoino et al.	703/2
PTC		US- 6,167,370	12-26-2000	Tsourikov et al.	704/9
PTC		US- 6,202,043	03-13-2001	Devoino et al.	703/17
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
Signature/Phuong Thao Cao/ *Phuong Thao Cao*Date  
Considered

05/24/2006

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Application Number	10/729,888
		Filing Date	December 5, 2003
		First Named Inventor	Wakefield, Todd D.
		Art Unit	2164
		Examiner Name	Phuong-Thao Cao
Sheet 4 of 10	Attorney Docket Number	03760.021/5138P	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
PTC		US- 4,864,502	09-05-1989	Kucera et al.	704/8
PTC		US- 4,868,750	09-19-1989	Kucera et al.	704/8
PTC		US- 4,887,212	12-12-1989	Zamora et al.	704/8
PTC		US- 4,905,138	02-27-1990	Bourne	717/139
PTC		US- 4,994,966	02-19-1991	Hutchins	704/9
PTC		US- 5,068,789	11-26-1991	van Vliembergen	704/9
PTC		US- 5,083,268	01-21-1992	Hemphill et al.	706/11
PTC		US- 5,164,899	11-17-1992	Sobotka et al.	704/9
PTC		US- 5,225,981	07-06-1993	Yokogawa	704/2
PTC		US- 5,243,520	09-07-1993	Jacobs et al.	704/9
PTC		US- 5,268,840	12-07-1993	Chang et al.	704/9
PTC		US- 5,297,040	03-22-1994	Hu	704/9
PTC		US- 5,323,316	06-21-1994	Kadashevich et al.	704/9
PTC		US- 5,369,577	11-29-1994	Kadashevich et al.	704/9
PTC		US- 5,424,947	06-13-1995	Nagao et al.	704/9
PTC		US- 5,438,512	08-01-1995	Mantha et al.	715/517
PTC		US- 5,559,693	09-24-1996	Anick et al.	704/9
PTC		US- 5,682,539	10-28-1997	Conrad et al.	704/9
PTC		US- 5,687,384	11-11-1997	Nagase	704/9

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>2</sup> *Number <sup>4</sup> *Kind Code <sup>5</sup> (if known)				

Examiner Signature	/Phuong Thao Cao/ <i>Phuong Thao Cao</i>	Date Considered	05/24/2006
-----------------------	--	--------------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Application Number	10/729,888
		Filing Date	December 5, 2003
		First Named Inventor	Wakefield, Todd D.
		Art Unit	2164
		Examiner Name	Phuong-Thao Cao
		Attorney Docket Number	03760.021/5138P
Sheet	5	of	10

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
PTC		US- 5,721,938	02-24-1998	Stuckey	704/4
PTC		US- 5,752,052	05-12-1998	Richardson et al.	704/9
PTC		US- 5,781,879	07-14-1998	Arnold et al.	704/9
PTC		US- 5,878,386	03-02-1999	Coughlin	704/10
PTC		US- 5,926,784	07-20-1999	Richardson et al.	704/9
PTC		US- 5,930,746	07-27-1999	Ting	704/9
PTC		US- 5,960,384	09-28-1999	Brash	704/9
PTC		US- 5,963,894	10-05-1999	Richardson et al.	704/9
PTC		US- 5,991,539	11-23-1999	Williams	717/143
PTC		US- 6,052,693	04-18-2000	Smith et al.	707/104.1
PTC		US- 6,138,087	10-24-2000	Budzinski	704/9
PTC		US- 6,182,029	01-30-2001	Friedman	704/9
PTC		US- 6,223,150	04-24-2001	Duan et al.	704/9
PTC		US- 6,243,669	06-05-2001	Horiguchi et al.	704/9
PTC		US- 6,446,081	09-03-2002	Preston	707/104.1
PTC		US- 6,505,157	01-07-2003	Elworthy	704/257
PTC		US- 6,535,886	03-18-2003	Koontz	707/102
PTC		US- 6,553,385	04-22-2003	Johnson et al.	707/104.1
PTC		US- 6,556,964	04-29-2003	Haug et al.	704/9

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (If known)				

Examiner Signature	/Phuong Thao Cao/ <i>Phuong Thao Cao</i>	Date Considered	05/24/2006
--------------------	--	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Application Number	10/729,888
		Filing Date	December 5, 2003
		First Named Inventor	Wakefield, Todd D.
		Art Unit	2164
		Examiner Name	Phuong-Thao Cao
Sheet 6 of 2	Attorney Docket Number	03760.021/5138P	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
PTC		US- 6,609,087	08-19-2003	Miller et al.	703/22
		US-			
PTC		US- 5,060,155	10-22-1991	van Zuijlen	704/10
PTC		US- 5,095,432	03-10-1992	Reed	704/9
PTC		US- 5,146,406	09-08-1992	Jensen	704/9
PTC		US- 5,311,429	05-10-1994	Tominaga	704/9
PTC		US- 5,418,717	05-23-1995	Su et al.	704/9
PTC		US- 5,438,511	08-01-1995	Maxwell, III et al.	704/1
PTC		US- 5,475,587	12-12-1995	Anick et al.	704/9
PTC		US- 5,490,061	02-06-1996	Tolin et al.	704/2
PTC		US- 5,594,837	01-14-1997	Noyes	706/55
PTC		US- 5,727,222	03-10-1998	Maxwell, III et al.	704/9
PTC		US- 5,761,631	06-02-1998	Nasukawa	704/9
PTC		US- 5,794,050	08-11-1998	Dahlgren et al.	717/144
PTC		US- 5,819,210	10-06-1998	Maxwell, III et al.	704/9
PTC		US- 5,841,900	11-24-1998	Rahgozar et al.	382/176
PTC		US- 5,878,406	03-02-1999	Noyes	706/55
PTC		US- 5,903,860	03-11-1999	Maxwell, III et al.	704/9
PTC		US- 5,963,742	10-05-1999	Williams	717/143

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> *Number <sup>4</sup> *Kind Code <sup>5</sup> (if known)				

Examiner Signature	/Phuong Thao Cao/ <i>Phuong Thao Cao</i>	Date Considered	05/24/2006
--------------------	--	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/729,888
Filing Date	December 5, 2003
First Named Inventor	Wakefield, Todd D.
Art Unit	2164
Examiner Name	Phuong-Thao Cao
Attorney Docket Number	03760.021/5138P

Sheet 7 of 10**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
PTC		US- 5,966,686	10-12-1999	Heidorn et al.	704/9
PTC		US- 5,983,169	11-09-1999	Kozma	704/2
PTC		US- 5,995,922	11-30-1999	Penteroudakis et al.	704/9
PTC		US- 5,999,896	12-07-1999	Richardson et al.	704/9
PTC		US- 6,023,760	02-08-2000	Karttunen	712/300
PTC		US- 6,055,494	04-25-2000	Friedman	704/9
PTC		US- 6,061,675	05-09-2000	Wical	706/45
PTC		US- 6,064,953	05-16-2000	Maxwell, III et al.	704/9
PTC		US- 6,108,620	08-22-2000	Richardson et al.	704/9
PTC		US- 6,128,596	10-03-2000	Mackie	704/257
PTC		US- 6,163,767	12-19-2000	Tang et al.	704/231
PTC		US- 6,199,034	03-06-2001	Wical	704/9
PTC		US- 6,263,335	07-17-2001	Paik et al.	707/5
PTC		US- 6,272,495	08-07-2001	Hetherington	707/101
PTC		US- 6,289,304	09-11-2001	Grefenstette	704/9
PTC		US- 6,292,771	09-18-2001	Haug et al.	704/9
PTC		US- 6,360,197	03-19-2002	Wu et al.	704/9
PTC		US- 6,487,545	11-26-2002	Wical	706/45
PTC		US- 6,571,240	03-27-2003	Ho et al.	707/5

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
Signature/Phuong Thao Cao/ *Phuong Thao Cao*Date  
Considered

05/24/2006

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Application Number	10/729,888
		Filing Date	December 5, 2003
		First Named Inventor	Wakefield, Todd D.
		Art Unit	2164
		Examiner Name	Phuong-Thao Cao
Sheet 8 of 10	Attorney Docket Number	03760.021/5138P	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
PTC		US- 6,609,091	08-19-2003	Budzinski	704/9
PTC		US- 6,611,825	08-26-2003	Billheimer et al.	706/45
PTC		US- 20020007358	01-17-2002	Johnson et al.	707/4
PTC		US- 20020010714	01-24-2002	Hetherington	715/505
PTC		US- 20020013793	01-31-2002	Bergan et al.	715/526
PTC		US- 20020032740	03-14-2002	Stern	709/206
PTC		US- 20020042711	04-11-2002	Lin	704/257
PTC		US- 20020046018	04-18-2002	Marcu et al.	704/9
PTC		US- 20020046019	04-18-2002	Verhagen et al.	704/9
PTC		US- 20020102025	08-01-2002	Wu et al.	382/229
PTC		US- 20020111793	08-15-2002	Luo et al.	704/10
PTC		US- 20020123881	09-05-2002	Schmid et al.	704/4
PTC		US- 20020128816	09-12-2002	Haug et al.	704/4
PTC		US- 20020128819	09-12-2002	Jessee et al.	704/10
PTC		US- 20020196679	12-26-2002	Lavi et al.	365/200
PTC		US- 20030004716	01-02-2003	Haigh et al.	704/238
PTC		US- 20030074186	04-17-2003	Wang	704/4
PTC		US- 20030074187	04-17-2003	Ait-Mokhtar et al.	704/9
PTC		US- 20030078899	04-24-2003	Shanahan	706/8

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> *Number <sup>4</sup> *Kind Code <sup>5</sup> (If known)				

Examiner Signature	/Phuong Thao Cao/ <i>Phuong Thao Cao</i>	Date Considered	05/24/2006
--------------------	--	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

*(Use as many sheets as necessary)*

Sheet 9 of 10

**Complete if Known**

Application Number	10/729,888
Filing Date	December 5, 2003
First Named Inventor	Wakefield, Todd D.
Art Unit	2164
Examiner Name	Phuong-Thao Cao
Attorney Docket Number	03760.021/5138P

## U. S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

/Phuong Thao Cao/

Date Considered

05/24/2006

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

**If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/729,888		
		Filing Date	December 5, 2003		
		First Named Inventor	Wakefield, Todd D.		
		Art Unit	2164		
		Examiner Name	Phuong-Thao Cao		
Sheet	10	of	10	Attorney Docket Number	03760.021/5138P

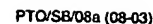
NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
PTC		BEAN, "Corpus-Based Identification ...", 27th Annual Meeting of the Association of Computational Linguistics, June 20-26 1999, p. 373-380, University of Maryland, USA	
PTC		RILOFF, "An Empirical Approach to Conceptual Case Frame Acquisition", Proceedings of the Sixth Workshop on Very Large Corpora, 1998	
PTC		RILOFF, "Little Words Can Make a...", Proceedings of the 18th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, 1995, pp. 130-136	
PTC		RILOFF, "Using Learned Extrac....", Connectionist, Statistical, and Symbolic Approaches to Learning for Natural Language Processing, 1996, Springer-Verlag, Berlin, pp. 275-289	
PTC		RILOFF, "Automatically Constructing a Dictionary for Informa...", Proceedings of the Eleventh National Conference on Artificial Intelligence, 1993, MIT Press, pages 811-816	
PTC		RILOFF, "Automatically Generating Extraction Patterns from Untagged Text", Proceedings of the Thirteenth National Conference on Artificial Intelligence, 1996, pp. 1044-1049	
PTC		ZICKUS, "A Software Engineering Approach to Developing an Object-Oriented Lexical Access Database and Semantic Reasoning Module", 1995, University of Delaware	
PTC		GIRARDI, "An Approach to Improve the Effectiveness of Software...", Proceedings of the Third Irvine Software Symposium (ISS'93), April 30, 1993, Irvine, California, pp. 89-100	
PTC		"State-of-the-art of Spoken Language Systems - a Survey", Sept. 1992, Speech Technology Centre, Aalborg University, Aalborg, Denmark	

Examiner Signature	/Phuong Thao Cao/ <i>Phuong Thao Cao</i>	Date Considered	05/24/2006
--------------------	--	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Substitute for COM 1449A PTO

**Complete if Known**

*(use as many sheets as necessary)*

Sheet	1	of	1
-------	---	----	---

Application Number	10/729,888
Filing Date	December 5, 2003
First Named Inventor	WAKEFIELD, Todd D.
Art Unit	<del>2474</del> 2164
Examiner Name	<del>Unassigned</del> Phuong-Thao Cao
Attorney Docket Number	5138 P

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

/Phuong Thao Cao/ *Phuong Thao Cao*

Date Considered

05/23/2006

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.